AMENDMENT UNDER 37 C.F.R. 1.116
EXPEDITED PROCEDURE
EXAMINING GROUP 2178
PATENT
Application # 10/664,754
Attorney Docket # 2002P15652US01 (1009-039)

AMENDMENTS

AMENDMENTS TO THE CLAIMS

1.   (Previously Presented) A method for representing HMI user screens comprising the activities of:

via an information device:

obtaining an organization and a hierarchy of a collection comprising a plurality of HMI screen nodes;

automatically determining an arrangement of the collection;

responsive to a detected collision between a parent node of said hierarchy of said collection and another node, automatically adjusting a position of said parent node; and

rendering the collection according to the arrangement.

2.   (Original) The method of claim 1, further comprising calculating a position of a leaf.

3.   (Original) The method of claim 1, further comprising calculating a position of a visible leaf.

4.   (Currently Amended) The method of claim 1, further comprising calculating a~the position of a~the parent.

5.   (Currently Amended) The method of claim 1, further comprising detecting a~the collision.

6.   (Currently Amended) The method of claim 1, further comprising updating a~the position of a~the parent.

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7.   (Currently Amended) The method of claim 1, further comprising updating a-the position of a-the parent upon detecting a-the collision.

8.   (Original) The method of claim 1, further comprising recursively calculating a position of each of the plurality of HMI screen nodes.

9.   (Currently Amended) The method of claim 1, further comprising recursively calculating a position of each of the plurality of HMI screen nodes and updating a-the position of a-the parent upon detecting a-the collision.

10.   (Previously Presented) The method of claim 1, further comprising changing a visibility of a node.

11.   (Previously Presented) The method of claim 1, further comprising changing a visibility of a node and children of the node.

12.   (Original) The method of claim 1, wherein the arrangement is a tree arrangement.

13.   (Original) The method of claim 1, wherein the arrangement is a vertical tree arrangement.

14.   (Original) The method of claim 1, wherein the arrangement is a horizontal tree arrangement.

15.   (Original) The method of claim 1, wherein the arrangement is rendered with equal inter-generational node spacing.

16.   (Original) The method of claim 1, wherein the arrangement is rendered with equal intra-generational node spacing.

17.   (Original) The method of claim 1, wherein the arrangement is rendered with each parent aligned centrally to all children of that parent.

18.   (Original) The method of claim 1, wherein the arrangement is rendered with all nuclear children separated equally.

19.   (Previously Presented) A machine-readable medium containing instructions for activities comprising:

obtaining an organization and a hierarchy of a collection comprising a plurality of HMI screen nodes;

determining an arrangement of the collection;

responsive to a detected collision between a parent node of said hierarchy of said collection and another node, automatically adjusting a position of said parent node; and

rendering the collection according to the arrangement.

20.   (Previously Presented) A device for providing a representation of user screens for an HMI comprising:

means for obtaining an organization and a hierarchy of a collection comprising a plurality of HMI screen nodes;

means for determining an arrangement of the collection;

a processor adapted to, responsive to a detected collision between a parent node of said hierarchy of said collection and another node, automatically adjust a position of said parent node; and

means for rendering the collection according to the arrangement.